



SAFETY DATA SHEET BLOWN CASTOR OIL REVISION 4, DATE 20 DEC 21

1. IDENTIFICATION

| | |
|----------------------------|--|
| Product Name | Blown Castor Oil |
| Other Names | Polymerized Triglyceride |
| Uses | Chemical industry; Adhesives, coatings, polyols, lubricants. |
| Chemical Family | No Data Available |
| Chemical Formula | Unspecified |
| Chemical Name | Castor oil, oxidized |
| Product Description | Oil/s |

Contact Details of the Supplier of this Safety Data Sheet

| Organisation | Location | Telephone |
|-------------------------|--|------------------|
| Redox Ltd | 2 Swettenham Road Minto NSW 2566 Australia | +61-2-97333000 |
| Redox Ltd | 11 Mayo Road Wiri Auckland 2104 New Zealand | +64-9-2506222 |
| Redox Inc. | 3960 Paramount Boulevard Suite 107 Lakewood CA 90712 USA | +1-424-675-3200 |
| Redox Chemicals Sdn Bhd | Level 2, No. 8, Jalan Sapir 33/7 Seksyen 33, Shah Alam Premier Industrial Park 40400 Shah Alam Sengalor, Malaysia | +60-3-5614-2111 |

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

| Organisation | Location | Telephone |
|----------------------------|-----------------|--|
| Poisons Information Centre | Westmead NSW | 1800-251525 131126 |
| Chemcall | Australia | 1800-127406 +64-4-9179888 |
| Chemcall | Malaysia | +64-4-9179888 |
| Chemcall | New Zealand | 0800-243622 +64-4-9179888 |
| National Poisons Centre | New Zealand | 0800-764766 |
| CHEMTREC | USA & Canada | 1-800-424-9300 CN723420 +1-703-527-3887 |

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust)

Not Scheduled



Globally Harmonised System

| | |
|-----------------------|--|
| Hazard Classification | NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) |
| Signal Word | None |

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

| | |
|--------------------------------|---|
| Dangerous Goods Classification | NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code) |
|--------------------------------|---|

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

| Chemical Entity | Formula | CAS Number | Proportion |
|----------------------|-------------|------------|------------|
| Castor oil, oxidized | Unspecified | 68187-84-8 | <=100 % |

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

| | |
|---|---|
| Swallowed | IF SWALLOWED: Rinse mouth. Get medical advice/attention in case of consumption in large quantities or if you feel unwell. |
| Eye | IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice/attention. |
| Skin | IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs, get medical advice/attention. |
| Inhaled | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention. |
| Advice to Doctor | Treat symptomatically. |
| Medical Conditions Aggravated by Exposure | No information available. |

5. FIRE FIGHTING MEASURES

| | |
|----------------------------------|---|
| General Measures | If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out. |
| Flammability Conditions | May burn but does not ignite readily. |
| Extinguishing Media | Use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction. Do NOT use full jet water as an extinguishing agent. |
| Fire and Explosion Hazard | Containers may explode when heated. |
| Hazardous Products of Combustion | Fire may produce irritating and/or toxic gases, including Carbon monoxide, Carbon dioxide, dense smoke. Contain runoff from fire control or dilution water - Runoff may cause pollution. |

Special Fire Fighting Instructions

| | |
|--------------------------------------|--|
| Personal Protective Equipment | Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection. |
| Flash Point | >205 - 260 °C (PMCC) |
| Lower Explosion Limit | No Data Available |
| Upper Explosion Limit | No Data Available |
| Auto Ignition Temperature | 445 °C |
| Hazchem Code | No Data Available |

6. ACCIDENTAL RELEASE MEASURES

| | |
|---|--|
| General Response Procedure | Ensure adequate ventilation. ELIMINATE all ignition sources. Do not touch or walk through spilled material. Avoid breathing mist/vapours and contact with eyes, skin and clothing. |
| Clean Up Procedures | Pick up with sand or other non-combustible absorbent material and place into containers for later disposal (see SECTION 13). |
| Containment | Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Dike far ahead of large spill for later disposal. |
| Decontamination | After collection of material, flush area with water. |
| Environmental Precautionary Measures | Prevent entry into soils, drains and waterways. |
| Evacuation Criteria | Spill or leak area should be isolated immediately. Keep unauthorised personnel away. |
| Personal Precautionary Measures | Use personal protective equipment as required (see SECTION 8). |

7. HANDLING AND STORAGE

| | |
|------------------|--|
| Handling | Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing mist/vapours and contact with eyes, skin and clothing. Use personal protective equipment as required (see SECTION 8). Prevent contact with incompatible materials. Keep away from heat and sources of ignition - No smoking. Take action to prevent static discharges - It is recommended to transfer at a slow speed to avoid the creation of electrostatic charges. |
| Storage | Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed - Avoid leakages and protect against physical damage. Keep away from heat and sources of ignition - No smoking. Keep away from food and incompatible materials (see SECTION 10). *Recommended storage temp: 5 - 30 °C |
| Container | Keep in the original container. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|--------------------------------------|--|
| General | No specific exposure standards are available for this product. For Vegetable oil mists: - Safe Work Australia Exposure Standard: TWA = 10 mg/m ³ . - New Zealand Workplace Exposure Standard: TWA = 10 mg/m ³ . |
| Exposure Limits | No Data Available |
| Biological Limits | No information available. |
| Engineering Measures | A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. |
| Personal Protection Equipment | - Respiratory protection: Wear respiratory protection in case of inadequate ventilation and/or where overexposure is a |

concern. Recommended: Approved mist respirator, as necessary. Caution: Air-purifying respirators must not be used in oxygen-deficient atmospheres.

- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses.

- Hand protection: Handle with gloves. Recommended: Impervious gloves, e.g. latex rubber.

- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Work uniform, anti-slip shoes/boots.

Special Hazards Precautions

No information available.

Work Hygienic Practices

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off contaminated clothing and wash it before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---------------------------|
| Physical State | Liquid |
| Appearance | Viscous liquid |
| Odour | Like vegetable oil |
| Colour | Amber |
| pH | Neutral |
| Vapour Pressure | No Data Available |
| Relative Vapour Density | No Data Available |
| Boiling Point | No Data Available |
| Melting Point | No Data Available |
| Freezing Point | No Data Available |
| Solubility | Insoluble in water |
| Specific Gravity | ~0.99 |
| Flash Point | >205 - 260 °C (PMCC) |
| Auto Ignition Temp | 445 °C |
| Evaporation Rate | No Data Available |
| Bulk Density | No Data Available |
| Corrosion Rate | No Data Available |
| Decomposition Temperature | No Data Available |
| Density | No Data Available |
| Specific Heat | No Data Available |
| Molecular Weight | No Data Available |
| Net Propellant Weight | No Data Available |
| Octanol Water Coefficient | No Data Available |
| Particle Size | No Data Available |
| Partition Coefficient | No Data Available |
| Saturated Vapour Concentration | No Data Available |
| Vapour Temperature | No Data Available |
| Viscosity | No Data Available |
| Volatile Percent | No Data Available |
| VOC Volume | No Data Available |
| Additional Characteristics | No information available. |
| Potential for Dust Explosion | Not applicable. |
| Fast or Intensely Burning Characteristics | No information available. |
| Flame Propagation or Burning Rate of Solid Materials | No information available. |

| | |
|---|---|
| Non-Flammables That Could Contribute Unusual Hazards to a Fire | No information available. |
| Properties That May Initiate or Contribute to Fire Intensity | May burn but does not ignite readily. |
| Reactions That Release Gases or Vapours | Fire/decomposition may produce irritating and/or toxic gases, including Carbon monoxide, Carbon dioxide, dense smoke. |
| Release of Invisible Flammable Vapours and Gases | No information available. |

10. STABILITY AND REACTIVITY

| | |
|---|---|
| General Information | No hazardous reactions are expected. |
| Chemical Stability | The product is stable under recommended storage conditions. |
| Conditions to Avoid | Keep away from heat and sources of ignition. |
| Materials to Avoid | Incompatible/reactive with oxidising materials, strong acids, alkalis/strong bases. |
| Hazardous Decomposition Products | Fire/decomposition may produce irritating and/or toxic gases, including Carbon monoxide, Carbon dioxide, dense smoke. |
| Hazardous Polymerisation | Not expected to occur. |

11. TOXICOLOGICAL INFORMATION

| | |
|----------------------------|--|
| General Information | Information on possible routes of exposure: <ul style="list-style-type: none">- Ingestion: Not toxic by oral route. Ingestion is not likely to be a primary route of exposure.- Eye contact: Not expected to be irritating to eyes.- Skin contact: Not toxic by dermal route. Not expected to be irritating to skin. Not a sensitiser.- Inhalation: Not toxic by inhalation route. Chronic effects: No information available. |
| Acute | |
| Ingestion | Acute toxicity (Oral): <ul style="list-style-type: none">- LD50, Rat: >5,000 mg/kg [Supplier's SDS]. |
| Carcinogen Category | None |

12. ECOLOGICAL INFORMATION

| | |
|----------------------------------|--|
| Ecotoxicity | Aquatic toxicity: <ul style="list-style-type: none">- LC50, Fish: >100 mg/L |
| Persistence/Degradability | No information available. |
| Mobility | No information available. |
| Environmental Fate | Prevent entry into soils, drains and waterways. |
| Bioaccumulation Potential | No information available. |
| Environmental Impact | No Data Available |

13. DISPOSAL CONSIDERATIONS

| | |
|--|--|
| General Information | Dispose of contents/container as potentially hazardous/special waste and in accordance with local/regional/national regulations. |
| Special Precautions for Land Fill | No information available. |

14. TRANSPORT INFORMATION**Land Transport (Australia)**

ADG Code

| | |
|-----------------------------|--|
| Proper Shipping Name | Blown Castor Oil |
| Class | C2 Combustible Liquids - Flash Point >93°C, Closed Cup, Not Excluded Flammable |
| Subsidiary Risk(s) | No Data Available |
| | No Data Available |
| UN Number | No Data Available |
| Hazchem | No Data Available |
| Pack Group | No Data Available |
| Special Provision | No Data Available |
| Comments | NON-DANGEROUS GOODS: Not regulated for LAND transport. |

Land Transport (Malaysia)

ADR Code

| | |
|-----------------------------|--|
| Proper Shipping Name | Blown Castor Oil |
| Class | No Data Available |
| Subsidiary Risk(s) | No Data Available |
| | No Data Available |
| UN Number | No Data Available |
| Hazchem | No Data Available |
| Pack Group | No Data Available |
| Special Provision | No Data Available |
| Comments | NON-DANGEROUS GOODS: Not regulated for LAND transport. |

Land Transport (New Zealand)

NZS5433

| | |
|-----------------------------|--|
| Proper Shipping Name | Blown Castor Oil |
| Class | No Data Available |
| Subsidiary Risk(s) | No Data Available |
| | No Data Available |
| UN Number | No Data Available |
| Hazchem | No Data Available |
| Pack Group | No Data Available |
| Special Provision | No Data Available |
| Comments | NON-DANGEROUS GOODS: Not regulated for LAND transport. |

Land Transport (United States of America)

US DOT

SAFETY DATA SHEET BLOWN CASTOR OIL REVISION 4, DATE 20 DEC 21

| | |
|----------------------|--|
| Proper Shipping Name | Blown Castor Oil |
| Class | No Data Available |
| Subsidiary Risk(s) | No Data Available |
| | No Data Available |
| UN Number | No Data Available |
| Hazchem | No Data Available |
| Pack Group | No Data Available |
| Special Provision | No Data Available |
| Comments | NON-DANGEROUS GOODS: Not regulated for LAND transport. |

Sea Transport

IMDG Code

| | |
|----------------------|---|
| Proper Shipping Name | Blown Castor Oil |
| Class | No Data Available |
| Subsidiary Risk(s) | No Data Available |
| UN Number | No Data Available |
| Hazchem | No Data Available |
| Pack Group | No Data Available |
| Special Provision | No Data Available |
| EMS | No Data Available |
| Marine Pollutant | No |
| Comments | NON-DANGEROUS GOODS: Not regulated for SEA transport. |

Air Transport

IATA DGR

| | |
|----------------------|---|
| Proper Shipping Name | Blown Castor Oil |
| Class | No Data Available |
| Subsidiary Risk(s) | No Data Available |
| UN Number | No Data Available |
| Hazchem | No Data Available |
| Pack Group | No Data Available |
| Special Provision | No Data Available |
| Comments | NON-DANGEROUS GOODS: Not regulated for AIR transport. |

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

| | |
|--------------------------------|---|
| Dangerous Goods Classification | NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code) |
|--------------------------------|---|

15. REGULATORY INFORMATION

| | |
|-------------------------|-------------------|
| General Information | No Data Available |
| Poisons Schedule (Aust) | Not Scheduled |

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code Not Hazardous

National/Regional Inventories

| | |
|--|----------------|
| Australia (AIIIC) | Listed |
| Canada (DSL) | Not Determined |
| Canada (NDSL) | Not Determined |
| China (IECSC) | Not Determined |
| Europe (EINECS) | 269-128-4 |
| Europe (REACH) | Not Determined |
| Japan (ENCS/METI) | Not Determined |
| Korea (KECI) | Not Determined |
| Malaysia (EHS Register) | Not Determined |
| New Zealand (NZIoC) | Listed |
| Philippines (PICCS) | Not Determined |
| Switzerland (Giftliste 1) | Not Determined |
| Switzerland (Inventory of Notified Substances) | Not Determined |
| Taiwan (NCSR) | Not Determined |
| USA (TSCA) | Not Determined |

16. OTHER INFORMATION

| | |
|-----------------------|---|
| Related Product Codes | CASBLO0005, CASBLO0015, CASBLO0016, CASBLO0050, CASBLO0051, CASBLO1000, CASBLO1500, CASBLO1512, CASBLO1567, CASBLO2000, CASBLO2020, CASBLO2021, CASBLO2736, CASBLO3000, CASBLO3001, CASBLO3002, CASBLO3200, CASBLO4000, CASBLO4010, CASBLO4030, CASBLO8000, CASBLO8090, CASBLO8095, CASBLO9088 |
| Revision | 4 |
| Revision Date | 20 Dec 2021 |
| Key/Legend | <p>< Less Than > Greater Than</p> <p>AICS Australian Inventory of Chemical Substances atm Atmosphere CAS Chemical Abstracts Service (Registry Number) cm² Square Centimetres CO₂ Carbon Dioxide COD Chemical Oxygen Demand deg C (°C) Degrees Celcius EPA (New Zealand) Environmental Protection Authority of New Zealand deg F (°F) Degrees Farenheit g Grams</p> |

g/cm³ Grams per Cubic Centimetre

g/l Grams per Litre

HSNO Hazardous Substance and New Organism

IDLH Immediately Dangerous to Life and Health

immiscible Liquids are insoluble in each other.

inHg Inch of Mercury

inH₂O Inch of Water

K Kelvin

kg Kilogram

kg/m³ Kilograms per Cubic Metre

lb Pound

LC₅₀ LC stands for lethal concentration. LC₅₀ is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

LD₅₀ LD stands for Lethal Dose. LD₅₀ is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

ltr or **L** Litre

m³ Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m³ Milligrams per Cubic Metre

Misc or **Miscible** Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH₂O Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health

NOHSC National Occupational Health and Safety Commission

OECD Organisation for Economic Co-operation and Development

Oz Ounce

PEL Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours

ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

R Rankine

RCP Reciprocal Calculation Procedure

STEL Short Term Exposure Limit

TLV Threshold Limit Value

tne Tonne

TWA Time Weighted Average

ug/24H Micrograms per 24 Hours

UN United Nations

wt Weight